VHFP-30

AMD® Ryzen™ Quad-Core Processor Based Mini PC

Features

- Developed on low power Ryzen™ 5 2500U and Ryzen™ Embedded V1605B
- Dual channel DDR4-2400MHz
- Dual independent display via HDMI2.0 and DP
- Rich I/O ports: 2×USB3.0, 4×USB2.0, 2×LAN, 1×COM, 1×HDMI, 1×DP
- M.2 interface for SSD, Wi-Fi, 4G module
- High performance and low power consumption
- High quality aluminium enclosure

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Introduction

VHFP-30 supports AMD Ryzen™ 2500U (quad-core) and V1605B (quad-core) and provides a complete PC platform with high performance. Coming from the embedded V1000 processor family and mobile processor family, these CPUs combine the incredible performance of the pioneering "Zen" architecture and "Vega" GPU in a single chip with thermal design power (TDP) as low as 12W/15W. This PC is equipped with two DDR4 SO-DIMM slots with a total maximum capacity of 32GB to add higher bandwidth and lower latencies for processes. And it also features 3×M.2 that support Wi-Fi, 4G module and NVMe SSD.

Two independent monitors are supported via the DP and HDMI2.0 ports. It also has rich interfaces including 4×USB2.0, 2×USB3.0, 1×COM, 1×Mic-in, 1×Line-out and 2×LAN, catering to most requirements in the market. This AMD Ryzen™ system is an ideal integrated platform for various application as, but not limited to, automation, network security, communication and transportation.

Linux™

ubuntu
Linux

Windows 10

H/W Monitor Watchdog

GPIO Brightness

I/O Interfaces

4×USB2.0   DP   HDMI   2×LAN   DC Jack

Rear panel

Type-C   2×USB3.0   Mic-in/Line-out   SIM Slot

Right side

COM

Left side

Technical Specifications

Processor	CPU	**2500U (quad-core)**	V1605B(quad-core)
	Max boost clock	3.6 GHz	3.6 GHz
	Base clock	2.0 GHz	2.0 GHz
	Cache	2MB L2	2MB L2
Memory	Type	2×SO-DIMM slot DDR4	
	Max Capacity	32GB	
Display	HDMI	HDMI 2.0	
	DP	DP 1.4	
	Dual display	HDMI 2.0+DP 1.4	
Ethernet	Speed	10/100/1000Mbps	
	Controller	RTL8111H	
	Interface	2×RJ45	
Audio	Audio codec	Realtek HD ALC662 (Line-out, Mic-in)	
Storage	M.2	1 for 2280 NVMe SSD (2242 SATA optional)	
	M.2	1 for 2242 SSD or 4G module	
Expansion	M.2	1 for Wi-Fi	
	SIM card slot	1	
Rear Panel I/O	USB2.0	4	
	HDMI	1	
	DP	1	
	LAN	2	
	DC-IN	1	
Right & Left Sides I/O	Audio	2(Mic-in, Line-out)	
	USB3.0	2	
	Type-c	1	
	SIM card slot	1	
	COM	1×RS232	
Power	Standard port	12V/19V DC-in	
Dimension	L*W*H	191L×151W×34H mm	
Weight (g)	N.W.	1KG	
Operating	Operating Temp.	-20℃ ~60℃ for V1605B; 0℃ ~60℃ for 2500U	
Environment	Storage Temp.	-20℃ ~80℃	
Operating System		Win10 64 bit, Linux 64 bit	

Dimensions

191mm

151mm

34mm
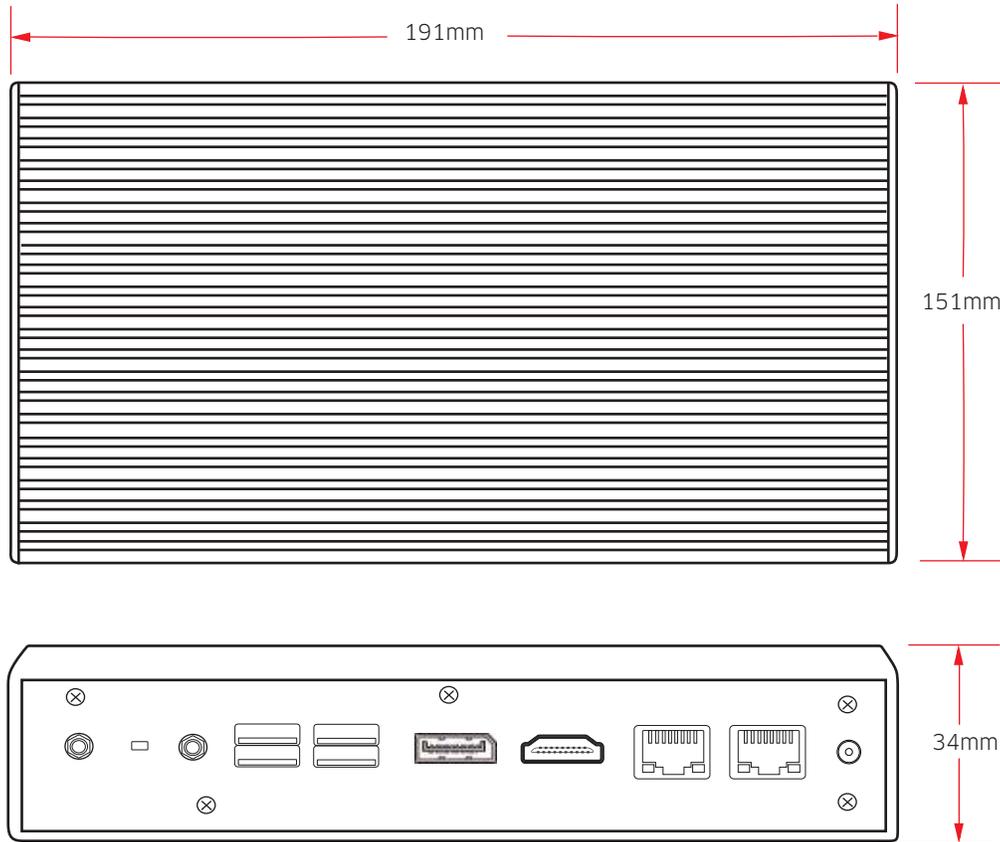
Ordering Information

Model	CPU	Memory	DP	HDMI	LAN	COM	Audio	M.2	SIM Slot	USB3.0	USB2.0	Power	Cooling
VH2500-B0	2500U	2×DDR4	1	1	2	1	Yes	3	1	2	4	DC-IN	Passive
VH1605-B0	V1605B	2×DDR4	1	1	2	1	Yes	3	1	2	4	DC-IN	Passive
Customization available													

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